

**328613(28)**

**BE (6<sup>th</sup> Semester)  
Examination, April-May, 2018  
(Old Scheme)**

**Advanced Microprocessor  
& Interfacing**

*Time Allowed : 3 hours*

*Maximum Marks : 80*

*Minimum Pass Marks : 28*

**Note :** Part (a) is compulsory which carries 2 marks and solve any two parts from (b), (c) and (d) carry 7 marks each.

1. (a) What do you understand by PSW in 8086?  
(b) Explain addressing modes in 8086.  
(c) Explain the interrupt execution with the help of an example using interrupt instructions.  
(d) Why segmented memory is used in 8086? What are its advantages?
2. (a) What is the job of MN / M $\bar{X}$  pin in 8086?  
(b) Explain interrupt priority management.

- (c) Discuss read and write operation in minimum mode with the help of the timing diagram.
- (d) Interface two 4K $\times$ 8 EPROM's and two 4K $\times$ 8 RAM chips with 8086 and select suitable maps.  
Range : EPROM  $\rightarrow$  FE000H to FFFFFH  
RAM  $\rightarrow$  FC000H to FDFFFFH

3. (a) Differentiate between 8259 and 8259A.  
(b) Explain the internal architecture of 8257 DMA controller in detail.  
(c) Explain the interfacing of 8255A with an A/D and D/A subsystem.  
(d) Explain the following signal description of 8251 : <http://www.csvtuonline.com>
  - (i)  $C / \bar{D}$
  - (ii) TxE
  - (iii) SYND $\bar{E}$ T
  - (iv)  $\overline{DTR}$
  - (v)  $\overline{RTS}$
4. (a) What do you mean by exception?  
(b) Explain register set of 80386.  
(c) Discuss real and protected mode in 80386.  
(d) Describe 80486 internal architecture.

[ 3 ]

5. (a) What do you mean by a multiprocessor system?
- (b) Explain data types and data formats of 8087 math coprocessor.
- (c) Explain IOP architecture.
- (d) How CPU communicates with IOP?

<http://www.csvtuonline.com>

Whatsapp @ 9300930012

Your old paper & get 10/-

पुराने पेपर्स भिजे और 10 रुपये पायें,

Paytm or Google Pay से